

ABSTRACT

[00182] A high throughput oligonucleotide synthesizer is described that includes masks for selectively deblocking of oligonucleotide synthesis sites and the simultaneous addition of reagents to all wells of the plate. The synthesizer includes a multi-well plate, each well of which contains a substrate for oligonucleotide synthesis. The use of masks expedites oligonucleotide synthesis by allowing for rapid delivery of reagents to all wells simultaneously.